

Mathematics GCSE

Key Information

Contact:	Mrs Saeed hsaeed@westonfavellacademy.org Mr Bizimana jbizimana@westonfavellacademy.org
Exam Board:	Edexcel
Summary of Subject:	Core principles of mathematics including number, geometry, algebra & data handling
Units, weighting & deadlines:	2 papers in May/June 2016 (Calculator & non-calculator) Each paper is 1hr 45 minutes and is out of a total of 100 marks

How can I support my child at home?

Useful websites:	www.mymaths.co.uk username: favell password: square https://www.mathswatchvle.com/ centre id: westonfavell user id: apupil password: mathswatch	<h3>To achieve a Grade A, I will be able to:</h3> <ul style="list-style-type: none"> • Understand & use standard form • Expand and factorise quadratics • Shade inequalities • Draw & use cumulative frequency curves & box plots • Work with fractional & negative indices • Work with upper & lower bounds • Re-arrange formulae • Enlarge with negative scale factor • Draw histograms • Solve quadratics • Work out unknown sides & angles using Trigonometry • Complete & use tree diagrams to find probability • Solve quadratics by factorising & using the quadratic formula • Solving simultaneous equations including quadratics • Using sine & cos rules • Working out area of sector & length of arc • Stratify samples • Work out unknown angles using circle theorem • Covert recurring decimals to fractions • Work through problems involving direct and inverse proportion • Work with algebraic fractions • Transform functions • Find vectors <h3>To achieve a Grade C, I will be able to:</h3> <ul style="list-style-type: none"> • Work out averages from frequency/ grouped frequency tables • Calculate area of shapes (e.g compound shapes, circles, trapezium) • Solve equations using the balance method and Trial & improvement • Work out unknown sides using Pythagoras theorem • Work out unknown angles using angle facts including angles in parallel lines • Collect like terms • Change the subject of a formula • Expand & Factorise expressions • Know & use the laws of indices • Interpret Time Graphs • Work out the volume of a prism • Work out probability • Interpret questionnaires • Form and solve equations • Construct triangles • Identify loci • Work out the nth term of a sequence • Work through bearings questions
Revision Texts:	<p>Title GCSE Maths Edexcel Revision Guide (with online edition) - Higher Publisher CGP ISBN 978 1 84146 544 9 Available from Student Reception for £2.00</p> 	